IRC-2

Log # __10-17__
(for office use only)

WASHINGTON STATE BUILDING CODE COUNCIL
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO THE WASHINGTON STATE BUILDING CODE

1. **State Building Code to be Amended.**
   - [ ] International Building Code
   - [X] International Residential Code
   - [ ] ICC ANSI A117.1 Accessibility Code
   - [ ] International Fire Code
   - [ ] Uniform Plumbing Code
   - [ ] State Energy Code

   - [ ] Ventilation and Indoor Air Quality Code
   - [ ] International Mechanical Code
   - [ ] International Fuel Gas Code
   - [ ] NFPA 54 National Fuel Gas Code
   - [ ] NFPA 58 Liquefied Petroleum Gas Code

   Section __R403.1__   Page __73__

2. **Applicant:**

   Annie O'Rourke

3. **Signed:**

   _____   _____   _2/28/10_
   Proponent   Title   Date

4. **Contact Person:**

   Annie O'Rourke
   Name   **Title**
   Address: _PO Box 1246_
   Port Angeles, WA 98362
   Phone: _360 417-5615_   **Fax:** ( ) _____

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5. Proposed Code Amendment (Underline all added words, strike through deleted words) Additional pages may be attached.

Code ___IRC 2009___ Section __T403.1__ Page __73__

Amend section to read as follows:

TABLE R403.1
MINIMUM WIDTH OF CONCRETE,
PRECAST OR MASONRY FOOTINGS
(Inches)[a]

	LOAD-BEARING VALUE OF SOIL (psf)			
	1,500	2,000	3,000	≥ 4,000
Conventional light-frame construction				
1-story Roof [b,c] 12	12	12	12	
2-story Floors [b,c] 15	12	12	12	
3-story Floors [b,c] 23	17	12	12	
4-inch brick veneer over light frame or 8-inch hollow concrete masonry				
1-story	12	12	12	12
2-story	21	16	12	12
3-story	32	24	16	12
8-inch solid or fully grouted masonry				
1-story	16	12	12	12
2-story	29	21	14	12
3-story	42	32	21	16

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa.

a. Where minimum footing width is 12 inches, use of a single wythe of solid or fully grouted 12-inch nominal concrete masonry units is permitted.

b. Represents the number of floors supported

c. Footings shall be permitted to support a roof in addition to the stipulated number of floors. Footings supporting roof only shall be as required for supporting one floor.

6. Background information on amendment.

NOTE: State-wide and emergency state-wide amendments to the state building code should be based on one of the following criteria:

    (1) The amendment is needed to address a critical life/safety need.
    (2) The amendment is needed to address a specific state policy or statute.
    (3) The amendment is needed for consistency with state or federal regulations.
    (4) The amendment is needed to address a unique character of the state.
    (5) The amendment corrects errors and omissions.

This code change recognizes the minimal weight of conventional light frame wall construction compared to that of masonry or concrete wall construction on the footing size. Currently, this table penalizes light frame construction by grouping it with 4" brick veneer, 8" masonry, etc, which is significantly heavier. By changing stories to "floors supported" for light frame construction only, consistency can be met with IBC Table 1809.7 and standard engineering practice. As an example, this change would allow a conventionally framed slab-on-ground garage with a bonus room above to be constructed with a standard 12" wide footing where the soil bearing is 1500psf rather than the current table which would require a 15" because it would be classified as a 2 story structure.

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Economic Impact Worksheet
(Required for statewide amendment requests. Attach supporting documentation.)

Code References: __2009 IRC__ Title: __Footing Size Table__
Proponent: __Annie O'Rourke__ Phone __360 417 5615__ Date: __2-28-10__

Part I ◆ Amendment Benefit:
PROBLEM(S) ADDRESSED: _____

_____

PRIMARY REASON FOR AMENDMENT: (check one only)
- ☐ Protect public health, safety and welfare
- ☒ Reduce cost
- ☐ "Manage risk" for government

- ☐ Mandate from legislation or courts
- ☐ Code change
- ☐ Other ___

TYPE OF BENEFITS PROJECTED: (check all that apply)
- ☐ Saves lives/reduces injuries
- ☐ Protects/improves long-term health
- Reduces construction cost:
  - ☒ Over existing code requirement
  - ☐ Canceling new code requirement
  - ☐ Off-setting new code requirement
- ☐ Increases construction alternatives

- ☐ Saves energy
- ☐ Protects environment
- ☐ Increases accessibility
- ☐ Reduces regulation
- ☐ Reduces government enforcement cost
- ☐ Clarifies/improves existing code
- ☐ Protects property loss/damage
- ☐ Other _____

Part II ◆ Amendment Impacts:
TYPES OF CONSTRUCTION: ☒ New Construction   ☒ Remodeling/Tenant Improvement/Repair

COMPLETE TABLE FOR EACH BUILDING TYPE CHECKED   (See reverse for instruction on items [a] through [e])

√	Building Type	Construction[a] 1st Cost		Enforcement[b]		Owner[c] Ongoing		Other		Supporting data attached
		C/S[d]	Degree[e]	C/S[d]	Degree[e]	C/S[d]	Degree[e]	C/S[d]	Degree[e]	
	Residential									✓
✓	Single family	—	I	—	O	—	O			
	Multi-family									
	Commercial/Retail									
	Industrial									
	Government/Utilities									
	Other:									

OTHER EFFECTS:
Evaluate by number scale 0-3 (0=none, 3=significant)
- _0_ Likelihood for litigation
- _0_ Decrease public cooperation
- _0_ Disadvantage small business
- ___ Other _____

Evaluate by letter code
(Spec, Custom, Factory, Remodel, Manufact., Other, NA)
- _NA_ Advantage one industry
- _NA_ Disadvantage one industry

Part III ◆ Comments and Recommendations:
Evaluate each by number scale 0-3 (0=none, 3=significant)
- _0_ Difficulty to Enforce
- _2_ Costs exceed Benefits
- _3_ C/S Confidence level
- _I_ Cost of not adopting amendment
- _I_ Degree of TAG controversy

Evaluate Yes or No (circle one)
- Y /Ⓝ Were alternative solutions considered
- Y /Ⓝ Recommend further benefit/impact analysis
- Y /Ⓝ Recommend future benefit/impact review